

Subject index for papers in Volume 29

Each index entry below is accompanied by an author's name and a page number; the author index contains the title of the paper and the names of coauthors, if any. Communications are identified by (C).

<i>Subject</i>	<i>Author</i>	<i>Page</i>			
Algorithms			Computational methods		
Adaptive clustering algorithm	O'Malley	68	Approach to DFT calculations using standard microprocessors	Rayfield	170
Algorithm for carrier routing in a flexible material-handling system	Haines	356	Large-scale scientific application programs in chemistry and physics on an experimental parallel computer system	Corongiu	422
Approach to DFT calculations using standard microprocessors	Rayfield	170	Computer applications		
Hardware sort-merge system	Takagi	49	Large-scale scientific application programs in chemistry and physics on an experimental parallel computer system	Corongiu	422
Image processing by simulated annealing	Carnevali	569	Computer architecture		
Novel method for analysis of printed circuit images	Mandeville	73	Hardware sort-merge system	Takagi	49
Prototype manufacturing knowledge base in Syllog	Fellenstein	413	Computer-controlled manipulators		
Scheduling algorithms for flexible flow lines	Wittrock	401	Precise manipulation with endpoint sensing	Taylor	363
Short-term production scheduling of an automated manufacturing facility	Gershwin	392	Computer organization and design		
Analytical models			Large-scale scientific application programs in chemistry and physics on an experimental parallel computer system	Corongiu	422
Image processing by simulated annealing	Carnevali	569	Computer performance analysis		
Channel subsystem architecture			Large-scale scientific application programs in chemistry and physics on an experimental parallel computer system	Corongiu	422
Write equalization in high-linear-density magnetic recording	Schneider	563	Control systems		
Coding theory			Precise manipulation with endpoint sensing	Taylor	363
Adaptive cross-parity (AXP) code for a high-density magnetic tape subsystem	Patel	546	Disk files		
Communications and communication networks			Experimental comparison of the head/disk interface dynamics in 5¼- and 8-inch disk drives	Bouchard	316
Jitter accommodation in token-passing ring LANs	Bates	580	Display technology		
Compilers and interpreters			Animation and 3D color display of multiple-variable data: Application to semiconductor design	Farrell	302
Development of APL2 syntax	Brown	37	Electrical packaging technology		

Cathodic delamination of methyl methacrylate-based dry film polymers on copper	Atkinson	27	Generation of three-dimensional bipolar transistor models for circuit analysis	Chang	252
Dielectric loss investigation of moisture in epoxy-glass composites	Marsh	18	Semiconductor device simulation using generalized mobility models	Laux	289
Error detection and correction			Two-dimensional device simulation program: 2DP	Gaur	242
Adaptive cross-parity (AXP) code for a high-density magnetic tape subsystem	Patel	546	Two-dimensional process modeling: A description of the SAFEPRO program	O'Brien	229
			VLSI wiring capacitance	Cottrell	277
Graphics			Lubrication		
Animation and 3D color display of multiple-variable data: Application to semiconductor design	Farrell	302	Dynamical equations governing a lubricating film consisting of a gas film overlying a liquid film	Langlois	2
Image processing			Magnetic head/disk interaction		
Image processing applications for geologic mapping	Abrams	177	Experimental comparison of the head/disk interface dynamics in 5¼- and 8-inch disk drives	Bouchard	316
Image processing by simulated annealing	Carnevali	569			
Novel method for analysis of printed circuit images	Mandeville	73	Magnetic recording		
Parameter reduction and context selection for compression of gray-scale images	Todd	188	Adaptive cross-parity (AXP) code for a high-density magnetic tape subsystem	Patel	546
			Write equalization in high-linear-density magnetic recording	Schneider	563
Impact printer technology			Manufacturing technology		
Design and implementation of the *SELECTRIC System/2000	Williams	443	Advanced bipolar transistor modeling: Process and device simulation tools for today's technology	Knepper	218
System control for a printwheel typewriter	Mayo	488	Algorithm for carrier routing in a flexible material-handling system	Haines	356
I/O devices			Analysis and design of CUSUM-Shewhart control schemes	Yashchin	377
Experimental comparison of the head/disk interface dynamics in 5¼- and 8-inch disk drives	Bouchard	316	Analysis of manufacturing systems by the Research Queueing Package	Chow	330
Keyboard design			Animation and 3D color display of multiple-variable data: Application to semiconductor design	Farrell	302
Development of a membrane switch-type full-travel tactile keyboard	DeFosse	478	Effects of wafer to wafer defect density variations on integrated circuit defect and fault distributions	Stapper	87
Large-scale computing			FEDSS—A 2D semiconductor fabrication process simulator	Borucki	263
Large-scale scientific application programs in chemistry and physics on an experimental parallel computer system	Corongiu	422	Generation of three-dimensional bipolar transistor models for circuit analysis	Chang	252
Large-scale integration			Integrated Manufacturing Modeling System	Engelke	343
Architecture of a digital signal processor	Ungerboeck	132	Prototype manufacturing knowledge base in Syllog	Fellenstein	413
Effects of wafer to wafer defect density variations on integrated circuit defect and fault distributions	Stapper	87	Scheduling algorithms for flexible flow lines	Wittrock	401
Microprocessors in brief	Stanley	110	Semiconductor device simulation using generalized mobility models	Laux	289
Signal processor chip implementation	Beraud	140	Short-term production scheduling of an automated manufacturing facility	Gershwin	392
Local area networks			Two-dimensional device simulation program: 2DP	Gaur	242
Jitter accommodation in token-passing ring LANs	Bates	580	Two-dimensional process modeling: A description of the SAFEPRO program	O'Brien	229
Regenerative simulation methods for local area computer networks	Haas	194	VLSI wiring capacitance	Cottrell	277
Logic design and technology			Materials		
Architecture of a digital signal processor	Ungerboeck	132	Cathodic delamination of methyl methacrylate-based dry film polymers on copper	Atkinson	27
Microprocessors in brief	Stanley	110	Dielectric loss investigation of moisture in epoxy-glass composites	Marsh	18
Signal processor chip implementation	Beraud	140	Electrical properties of resistive ribbon	Shih	519
LSI design automation			Implementation of the resistive ribbon technology in a printer and correcting typewriter	Applegate	459
Advanced bipolar transistor modeling: Process and device simulation tools for today's technology	Knepper	218			
Animation and 3D color display of multiple-variable data: Application to semiconductor design	Farrell	302			
FEDSS—A 2D semiconductor fabrication process simulator	Borucki	263			

Ink temperatures in resistive ribbon thermal transfer printing	Chieu	509	Personal computer applications		
Resistive ribbon thermal transfer printing: A historical review and introduction to a new printing technology	Pennington	449	Personal Instrument (PI)—A PC-based signal processing system	Shichman	158
Stability of a colloidal suspension of coated magnetic particles in an aqueous solution	Chan	11	Physics and physical chemistry		
Thermal behavior of resistive ribbon for single-stylus excitation	Laff	527	Cathodic delamination of methyl methacrylate-based dry film polymers on copper	Atkinson	27
Mathematics (applied)			Dielectric loss investigation of moisture in epoxy-glass composites	Marsh	18
Large-scale scientific application programs in chemistry and physics on an experimental parallel computer system	Corongiu	422	Large-scale scientific application programs in chemistry and physics on an experimental parallel computer system	Corongiu	422
Mechanics and mechanisms			Stability of a colloidal suspension of coated magnetic particles in an aqueous solution	Chan	11
Precise manipulation with endpoint sensing	Taylor	363	Plant automation		
System control for a printwheel typewriter	Mayo	488	Algorithm for carrier routing in a flexible material-handling system	Haines	356
System controls for a resistive ribbon printer	Bohnhoff	494	Analysis and design of CUSUM-Shewhart control schemes	Yashchin	377
Microprocessor-based applications			Analysis of manufacturing systems by the Research Queueing Package	Chow	330
Approach to DFT calculations using standard microprocessors	Rayfield	170	Integrated Manufacturing Modeling System	Engelke	343
Personal Instrument (PI)—A PC-based signal processing system	Shichman	158	Prototype manufacturing knowledge base in Syllog	Fellenstein	413
Voice-excited predictive coder (VEPC) implementation on a high-performance signal processor	Galand	147	Scheduling algorithms for flexible flow lines	Wittrock	401
Microprocessors			Short-term production scheduling of an automated manufacturing facility	Gershwin	392
Architecture of a digital signal processor	Ungerboeck	132	Printing technology		
Microprocessors in brief	Stanley	110	Characterization of a resistive ribbon thermal transfer printing process	Twardeck	470
Models and modeling			Design and implementation of the *SELECTRIC System/2000	Williams	443
Advanced bipolar transistor modeling: Process and device simulation tools for today's technology	Knepper	218	Development of a membrane switch-type full-travel tactile keyboard	DeFosse	478
Animation and 3D color display of multiple-variable data: Application to semiconductor design	Farrell	302	Electrical properties of resistive ribbon	Shih	519
Dynamical equations governing a lubricating film consisting of a gas film overlying a liquid film	Langlois	2	Implementation of the resistive ribbon technology in a printer and correcting typewriter	Applegate	459
FEDSS—A 2D semiconductor fabrication process simulator	Borucki	263	Ink temperatures in resistive ribbon thermal transfer printing	Chieu	509
Generation of three-dimensional bipolar transistor models for circuit analysis	Chang	252	Resistive ribbon thermal transfer printing: A historical review and introduction to a new printing technology	Pennington	449
Regenerative simulation methods for local area computer networks	Haas	194	System control for a printwheel typewriter	Mayo	488
Semiconductor device simulation using generalized mobility models	Laux	289	System controls for a resistive ribbon printer	Bohnhoff	494
Stability of a colloidal suspension of coated magnetic particles in an aqueous solution	Chan	11	Thermal behavior of resistive ribbon for single-stylus excitation	Laff	527
Two-dimensional device simulation program: 2DP	Gaur	242	Programming and programming languages		
Two-dimensional process modeling: A description of the SAFEPRO program	O'Brien	229	Development of APL2 syntax	Brown	37
VLSI wiring capacitance	Cottrell	277	Quality control		
Parallel processing			Effects of wafer to wafer defect density variations on integrated circuit defect and fault distributions	Stapper	87
Large-scale scientific application programs in chemistry and physics on an experimental parallel computer system	Corongiu	422	Experimental comparison of the head/disk interface dynamics in 5¼- and 8-inch disk drives	Bouchard	316
			Novel method for analysis of printed circuit images	Mandeville	73
			Queueing theory		
			Analysis of manufacturing systems by the Research Queueing Package	Chow	330

Relational databases			Statistics		
Prototype manufacturing knowledge base in Syllog	Fellenstein	413	Effects of wafer to wafer defect density variations on integrated circuit defect and fault distributions	Stapper	87
Scheduling			System architecture		
Algorithm for carrier routing in a flexible material-handling system	Haines	356	Large-scale scientific application programs in chemistry and physics on an experimental parallel computer system	Corongiu	422
Analysis and design of CUSUM-Shewhart control schemes	Yashchin	377			
Analysis of manufacturing systems by the Research Queueing Package	Chow	330	System architecture and development		
Prototype manufacturing knowledge base in Syllog	Fellenstein	413	Large-scale scientific application programs in chemistry and physics on an experimental parallel computer system	Corongiu	422
Scheduling algorithms for flexible flow lines	Wittrock	401			
Short-term production scheduling of an automated manufacturing facility	Gershwin	392	Thermal transfer printing		
Semiconductor device analysis			Characterization of a resistive ribbon thermal transfer printing process	Twardeck	470
Analysis of the holding current in CMOS latch-up (C)	Matino	588	Design and implementation of the *SELECTRIC System/2000	Williams	443
Semiconductor technology			Electrical properties of resistive ribbon	Shih	519
Advanced bipolar transistor modeling: Process and device simulation tools for today's technology	Knepper	218	Implementation of the resistive ribbon technology in a printer and correcting typewriter	Applegate	459
Animation and 3D color display of multiple-variable data: Application to semiconductor design	Farrell	302	Ink temperatures in resistive ribbon thermal transfer printing	Chieu	509
Effects of wafer to wafer defect density variations on integrated circuit defect and fault distributions	Stapper	87	Resistive ribbon thermal transfer printing: A historical review and introduction to a new printing technology	Pennington	449
Experimental comparison of the head/disk interface dynamics in 5¼- and 8-inch disk drives	Bouchard	316	Thermal behavior of resistive ribbon for single-stylus excitation	Laff	527
FEDSS—A 2D semiconductor fabrication process simulator	Borucki	263	Token-passing rings		
Generation of three-dimensional bipolar transistor models for circuit analysis	Chang	252	Jitter accommodation in token-passing ring LANs	Bates	580
Semiconductor device simulation using generalized mobility models	Laux	289	Typewriter design		
Two-dimensional device simulation program: 2DP	Gaur	242	Characterization of a resistive ribbon thermal transfer printing process	Twardeck	470
Two-dimensional process modeling: A description of the SAFEPRO program	O'Brien	229	Design and implementation of the *SELECTRIC System/2000	Williams	443
VLSI wiring capacitance	Cottrell	277	Development of a membrane switch-type full-travel tactile keyboard	DeFosse	478
Signal processing			Electrical properties of resistive ribbon	Shih	519
Adaptive clustering algorithm	O'Malley	68	Implementation of the resistive ribbon technology in a printer and correcting typewriter	Applegate	459
Architecture of a digital signal processor	Ungerboeck	132	Ink temperatures in resistive ribbon thermal transfer printing	Chieu	509
Personal Instrument (PI)—A PC-based signal processing system	Shichman	158	Resistive ribbon thermal transfer printing: A historical review and introduction to a new printing technology	Pennington	449
Signal processor chip implementation	Beraud	140	System control for a printwheel typewriter	Mayo	488
Voice-excited predictive coder (VEPC) implementation on a high-performance signal processor	Galand	147	System controls for a resistive ribbon printer	Bohnhoff	494
Write equalization in high-linear-density magnetic recording	Schneider	563	Thermal behavior of resistive ribbon for single-stylus excitation	Laff	527
Simulation					
Integrated Manufacturing Modeling System	Engelke	343			
Regenerative simulation methods for local area computer networks	Haas	194			
Sorting					
Adaptive clustering algorithm	O'Malley	68			
Hardware sort-merge system	Takagi	49			
Speech processing					
Personal Instrument (PI)—A PC-based signal processing system	Shichman	158			
Voice-excited predictive coder (VEPC) implementation on a high-performance signal processor	Galand	147			